



## REM R MATERIAL DATA SHEET CM-SE-1.57

### CONCRETE SEALER: SIKAGARD 70

#### 1. NAME

Sikagard 70

#### 2. MANUFACTURER

Sika Corporation  
P. O. Box 297  
Lyndhurst, NJ 07071  
Telephone: 201-933-8800

#### 3. DESCRIPTION

Sikagard 70 is a single-component, colorless blend of poly-siloxane resins.

#### 4. USES & LIMITATIONS

Uses: Sikagard 70 is used as a colorless, water-repellent treatment to seal the surface of absorbent materials exposed to rainfall.

Limitations: Avoid opening and closing of container since material is moisture-sensitive. Do not apply at temperature below 35 °F, or when temperature is expected to fall below 35 °F within 12 hr. Material is not intended for waterproofing under hydrostatic pressure. Do not apply through standing water. Material is recommended for below-grade waterproofing. Material is not intended to seal visible cracks or crevices from moisture intrusion. Performance and penetration are dependent upon the concrete quality.

#### 5. MANUFACTURER'S TECHNICAL DATA

##### Properties:

(73 ± 2 °F and 50 ± 5% rh)

Color: Clear, colorless

Viscosity: 15 cps

Flash point: 95 °F

Shelf life: 6 months in original container. Keep dry. Store properly since material is moisture sensitive.

Storage conditions: Store at maximum 85 °F. Keep dry.

Coverage: 100 to 400 sq ft/gal, depending on porosity of substrate. For proven results, 100 sq/ft gal is recommended.

Packaging: 1-gal and 5-gal pails and 55-gal drums.

##### Performance results\*:

	Weight Gain, %	Chloride Ion, Weight %
Sikagard 70	0.50	0.0334
Control concrete	2.69	0.3375

\* Material submerged 21 days in 15% sodium chloride solution.

#### 6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Surface preparation: Before applying

Sikagard 70, be sure surface is clean and sound. It need not be completely dry, but standing water must be removed. While residual moisture does not affect the treatment, the drier the substrate the better the penetration.

Remove all grease, curing compounds, surface treatments, coating, oils, etc. on old concrete by the proper means. A light sandblasting improves penetration on new and old concrete.

Application: Apply laterally by roller, brush (horizontal surfaces), or spray.

Note: When spraying, it is advisable to use hand-pressure equipment rather than compressed-air drive.

Caution: Sikagard 70 is flammable. It contains volatile solvents. Use with adequate ventilation. Avoid contact with skin; wash hands thoroughly after use. This sealer is designed for industrial or commercial use only. Keep out of reach of children.

## 7. CORPS OF ENGINEERS' EVALUATION (tested as concrete sealers only)

### Physical and mechanical properties:

Percent solid  
(ASTM D 1644, Method A): 10.0%

Percent moisture absorption  
(ambient temp) (ASTM C 642-82):

1 day	0.15%
2 days	0.32%
4 days	0.50%
7 days	0.86%

Ratio of percent moisture absorption  
for treated to nontreated specimen  
(2-day submersion): 6.81%

Percent vapor transmittance (see REMR  
Technical Note CS-ES-1.8):

2 days	0.38%
4 days	0.64%
7 days	0.95%

Ratio of percent vapor transmittance  
for treated to nontreated specimen  
(2-day diffusion): 23.8%

## 8. ENVIRONMENTAL CONSIDERATIONS

Reasonable caution should guide the preparation, repair, and cleanup phases of activities involving potentially hazardous and toxic chemical substances. Manufacturer's recommendations to protect occupational health and environmental quality should be carefully followed. Material safety data sheets must be obtained from the manufacturers of such materials. In cases where the effects of a chemical substance on occupational health or environmental quality are unknown, chemical substances should be treated as potentially hazardous toxic materials.